LUNAR ROVING VEHICLE

CREW EQUIPMENT STOWAGE METHODS
AND LOCATION

PREPARED BY



APOLLO SYSTEMS
HOUSTON PROGRAMS

ITEM NO.	NOMENCLATURE	UNIT WEIGHT LBS.	QUANTITY	LRV STOWAGE ZONE CODE	LM-10 STOWAGE LIST ITEM NO.	LM-10 STOWAGE LOCATION		
						AS	DS	AREA
	ALHTC (WITH TOOLS)	20.7						
1	ALHTC (TOOL CARRIER)	(10.2)	1	A4	G4035		1	MESA
2	CAP AND BRACKET ASSY, CORE TUBE	(0.7)	1	A4			/	MESA (SRC)
3	DISPENSER, 35-BAG	(1.6)	1	A4			1	MESA (SRC)
4	GNOMON	(0.6)	1	A4	G4035.3		1	MESA
5	HAMMER	(2.8)	1	A4	G4035.1		1	MESA
6	HANDLE, EXTENSION	(1.3)	1	A4	G4008		1	MESA
7	SCOOP, SMALL	(0.4)	1	A4	G4035.4		1	MESA
8	SCRIBE/BRUSH/LENS	(0.5)	1	A4	G4035.5		1	MESA
9	STAFF/CAMERA MOUNT	(0.8)	1	A4	G4035.6	1	1	MESA
		(0.6)	3	A4	4100010		1	MESA (SRC)
10	TUBES, CORE	*6.6	1	F3	E1002		1	MESA
11	ANTENNA, HIGH GAIN	2.5	1	C3	E1002		1	MESA
12	ANTENÑA, LOW GAIN	0.6	4	L1(STOW)/A1D&E(USE)	G4018		1	MESA (SRC)
13	BAGS, WEIGH	1.4	1	L3	B1045		1	· MESA
14	BRUSH, LUNAR DUST		1	Alf	TBD		1	MESA (TBD)
15	CAMERA, CLOSE-UP STEREO	10.7		C4	100	,		TBD
16	CAMERA SYSTEM, 16 MM DAC	8.9	1		A0101.1	1		RHSSC
17	MAGAZINE, 16 MM	(1.0)	2	C4/R3B-E	A0101.1			Kiisse
	CAMERA SYSTEM, LGEC	9.3	4		700		1,	месь
18	BRACKET, RCU	*(0.8)	1	C2	TBD		1	MESA
19	COVER, LGEC MAGAZINE	1.8	1	. R1	G4030		1	MESA
20	LGEC (CAMERA)	(6.0)	1	C2	G4021		1	MESA
21	MAGAZINE, LGEC	(2.5)	2 .	C2/R1	G4024		1	MESA
	CAMERA SYSTEM, 70 MM	7.6						
22	BRACKET, RCU	(0.6)	1	C1	B1001.1	1		RHSSC
23	CAMERA, 70 MM	(3.1)	1	Cl	A1015	1		RHSSC
24	HANDLE	(0.5)	1.	C1	A1028	1		RHSSC
25	LENS, 60 MM	(1.8)	1	C1	A1016	1	00	RHSSC
26	MAGAZINE, 70 MM	(1.4)	2	C1/R2	A0108.1	1	1	RHSSC
27	TRIGGER	(0.2)	1	C1	A1027	1		RHSSC
28	CONTAINER, SPECIAL ENVIRONMENT SAMPLE (SESC)	1.0	1	R3A	3.4		1	MESA (SRC)
29	DISPENSER, 15-BAG	0.2	1	C5 OR C6				TBD
30	DRILL, APOLLO LUNAR SURFACE	17.1	1	A2A	G4002.2		1	SEQ BAY
31	CAPS AND RETAINERS, CORE STEM	0.15	2 (PKGS)	A2E/A2F				
32	STEMS, CORE	0.45	6	A2C(EMPTY)/L2(FULL)				
33	BIT, CORE	0.1	1	A2C				
. 34	TREADLE	2.7	1	A2B				
35	WRENCH, DRILL STRING	0.4	2	A2D	G4028		1	SEQ BAY
36	LCRU	*54.0	1	F1	E1002		1	MESA
37	LINE, LUNAR SAFETY, W/BAG	1.3	1	R3F	B1041/B1047		1	MESA
38	MAGNETOMETER, HAND-HELD	*10.1	1	A1A/A1B/A1C			1	TBD
39	MAPS, LUNAR SURFACE			TBD	A0114.13	1		FLIGHT DATA FI
40	SCOOP, LARGE	1.3	1	TBD	G4007		1	MESA
41	TONGS	*1.0	2	C7(LEFT)/C8(RIGHT)	G4035.2		1	MESA
42	TOOL, TRENCHING	2.1	1	A1G	G4029		1	MESA
43	TV SYSTEM, LM COLOR	*13.6	1	F2	E1001		1	MESA
44	AZ-EL UNIT	*7.0	1	F2			1	MESA
45	UMBILICAL, BUDDY SYSTEM, W/BAG	10.9	1	A3	B1052/B1053	1		+Z27 BULKHEAD

Page 1

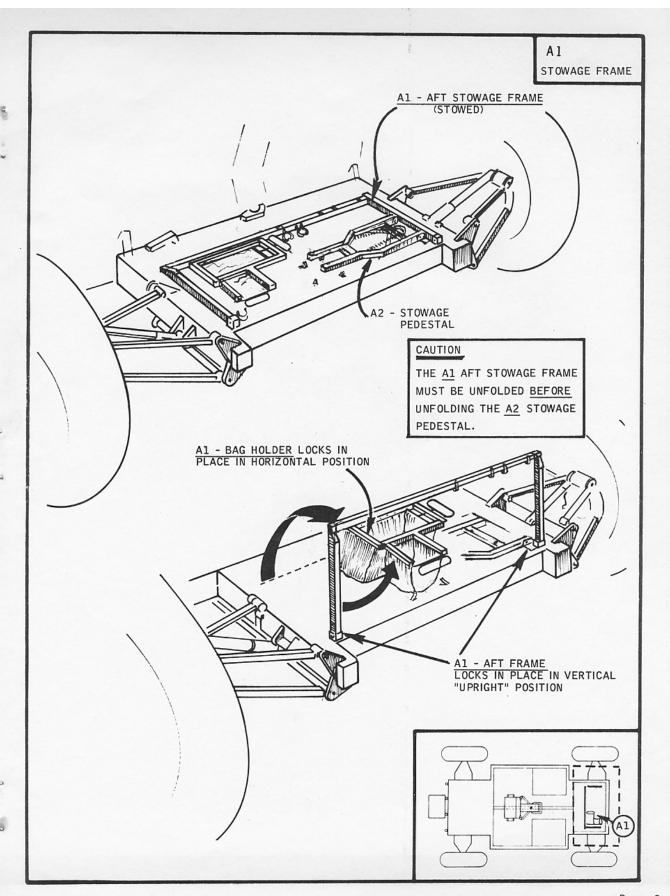
LUNAR ROVING VEHICLE (LRV) STOWAGE CONCEPTS

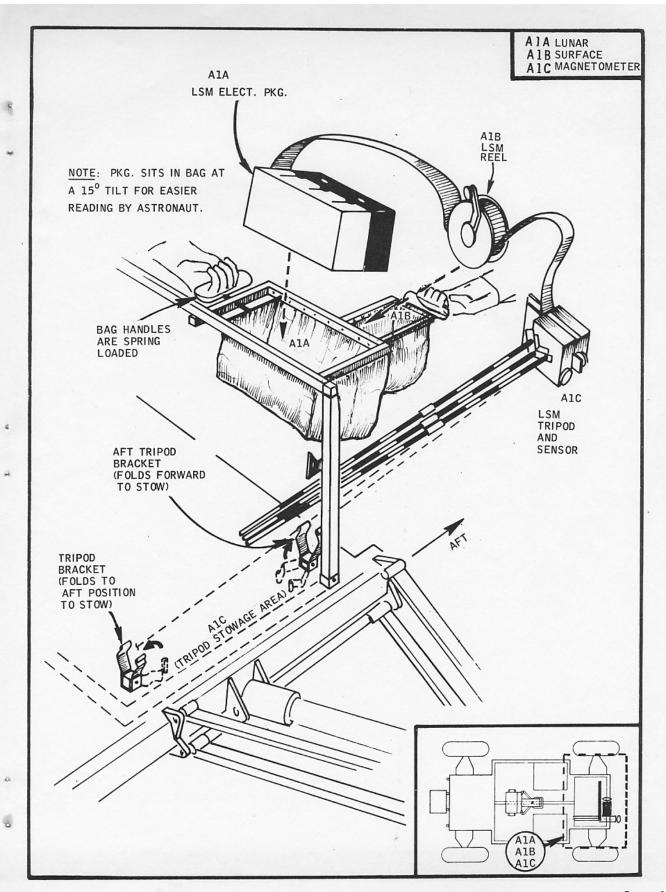
The Lunar Roving Vehicle (LRV) will provide the astronauts with increased capability for exploration of the lunar surface after landing of the Lunar Module. Particularly, the LRV will allow the astronauts to range further and faster, thus utilizing the expendables of the crew's Portable Life Support Systems more for "active sample taking" rather than in "walking of the traverses."

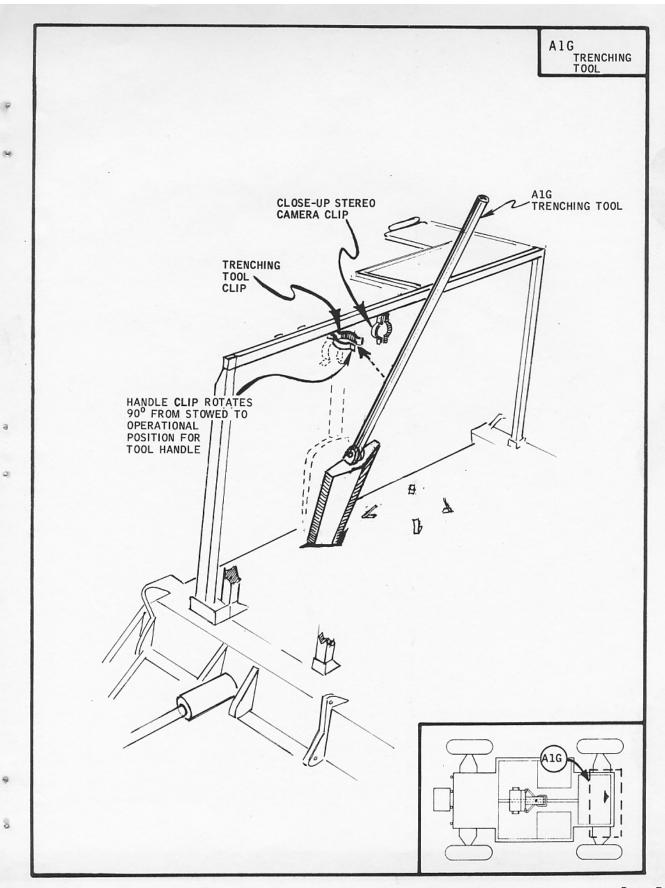
The LRV must serve not only as a "taxi" for the astronauts, but also as a "truck" to carry the crew equipment, tools and experimental equipment required for the planned traverses of the lunar surface. Due to the reduced gravity on the lunar surface, this "trucking" becomes a more complex design problem for a lunar surface vehicle. The stowed equipment has more "bounce" on the lunar surface than it would have in an earth environment. As a result, methods for restraint, containment and support are required for all stowed equipment on the LRV.

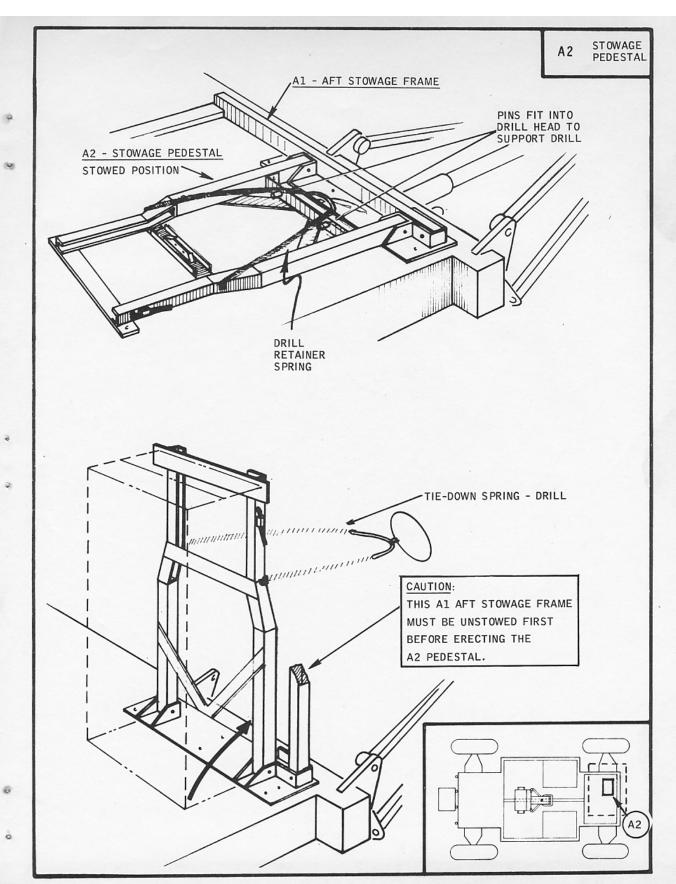
This handbook illustrates proposed methods for stowing equipment on the LRV. Equipment items to be stowed on the LRV and their related data are listed for reference on the left-hand facing page 1. "Stowage areas" on the vehicle have been coded for ease of reference. The right-hand foldout (page 25) identifies all the coded area designations and related stowed items. The stowage concepts for the unique stowage areas are illustrated in detail on the following pages that are arranged alphanumerically by area codes:

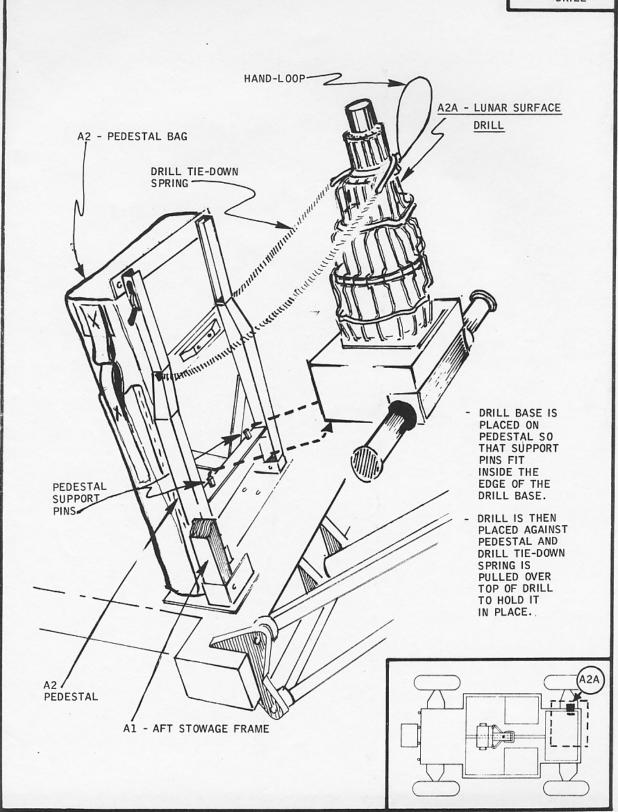
CODES		GENERAL AREA DESCRIPTIONS					
A's	=	Vehicle Areas Aft of Seats					
C's	=	Console Areas					
F's	=	Forward Vehicle Areas					
R's	=	Areas Under Right Seat					
L's	=	Areas Under Left Seat					

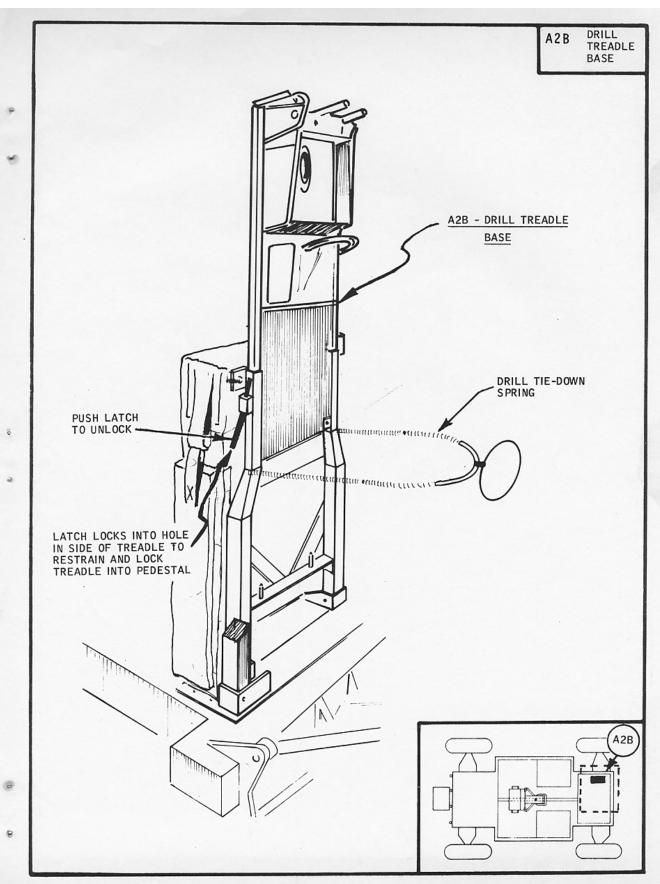


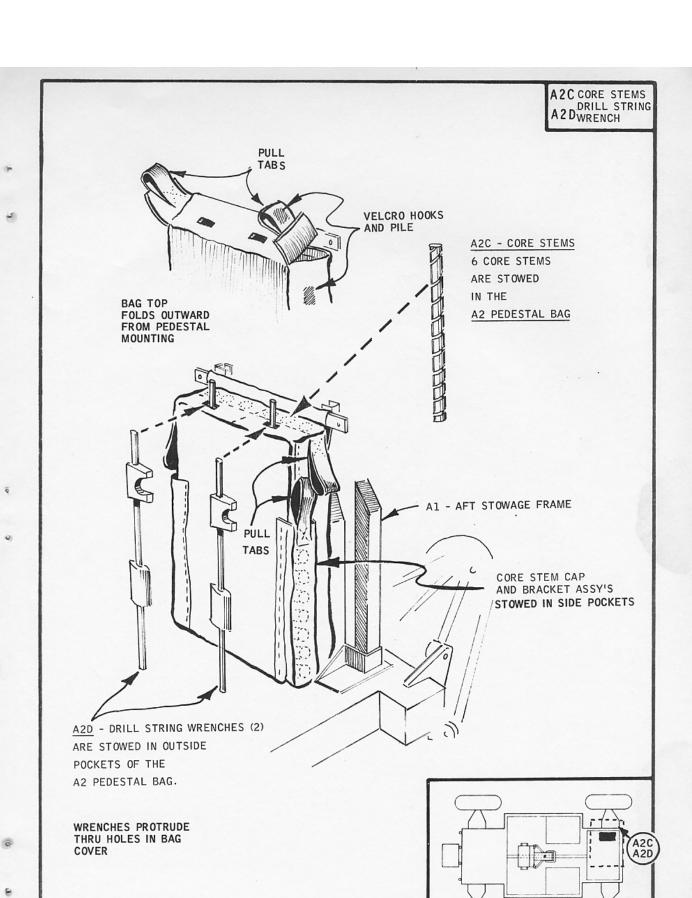


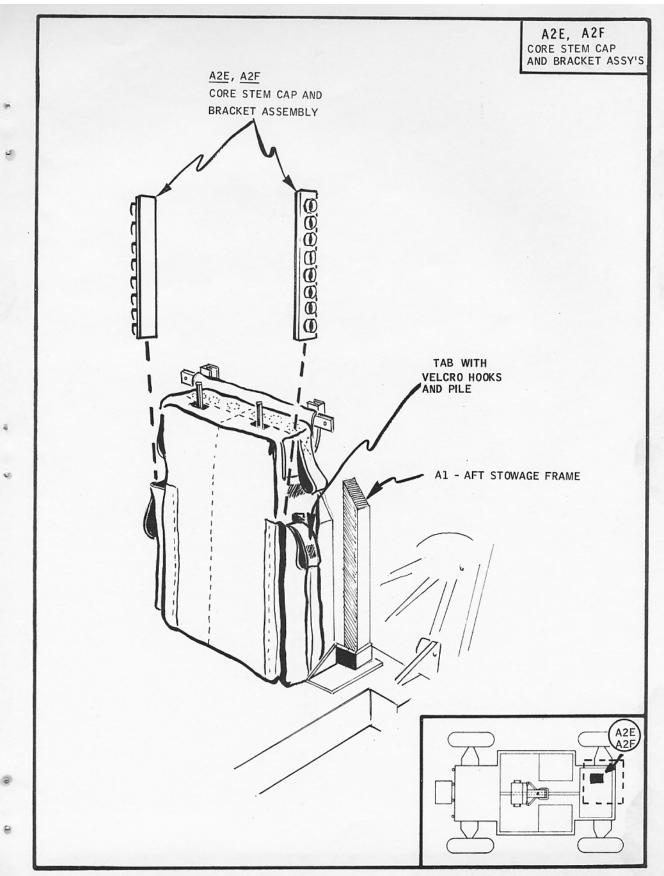


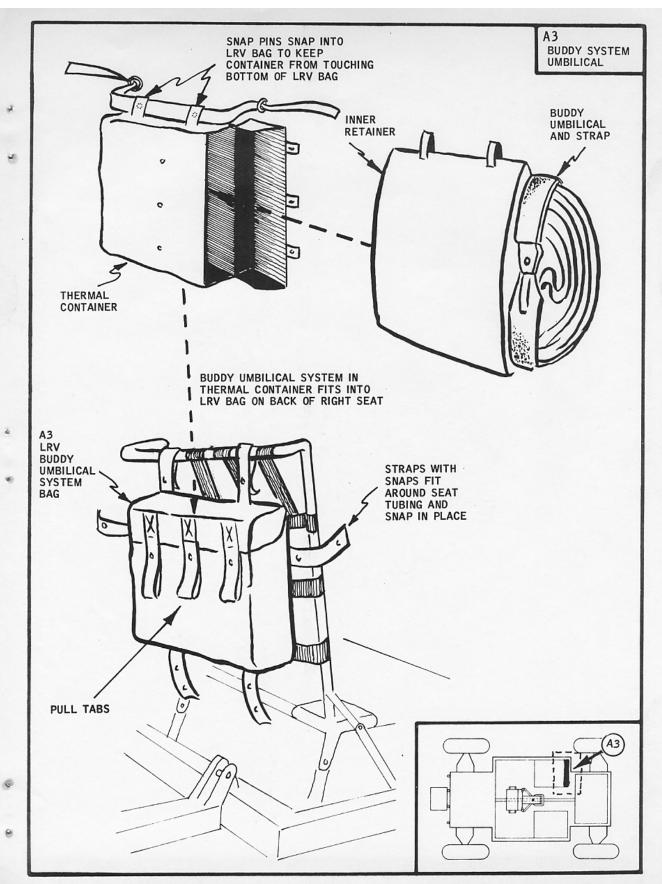


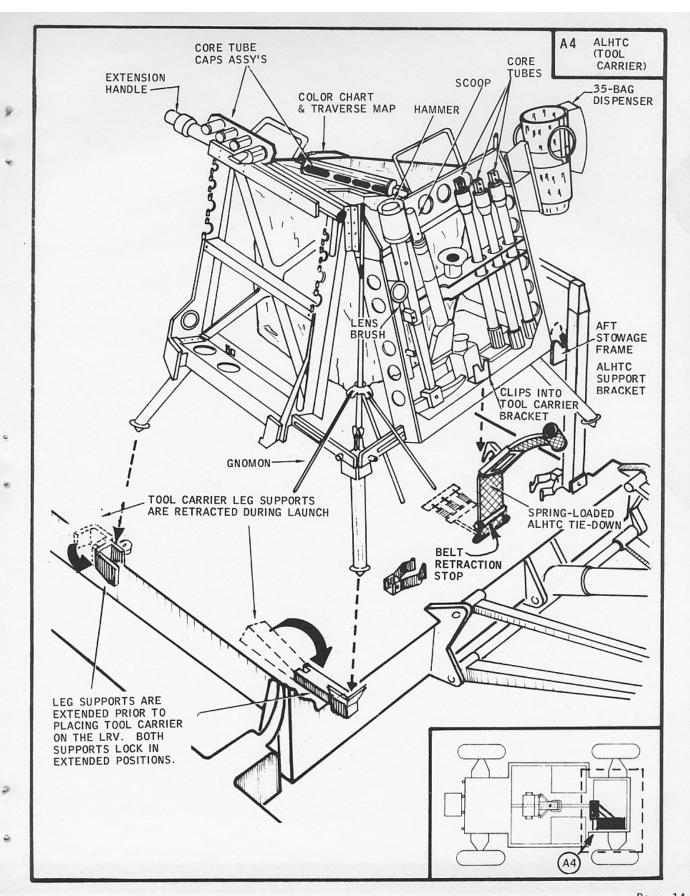


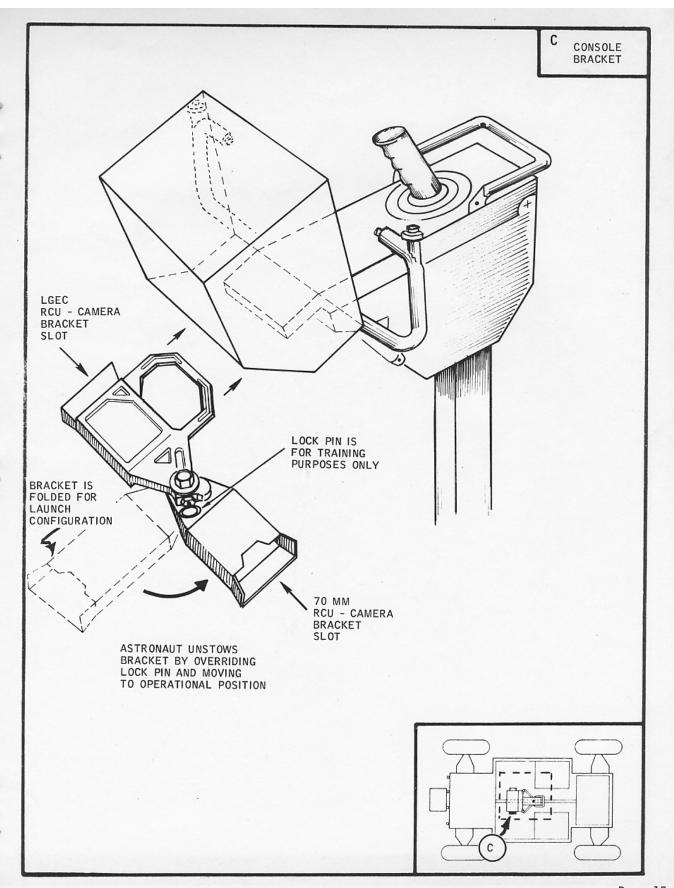


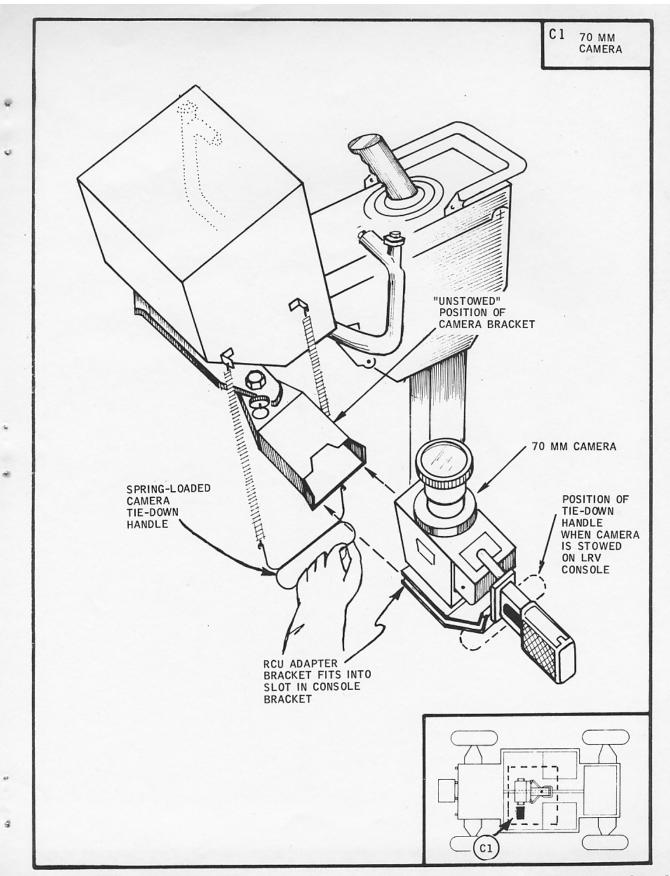


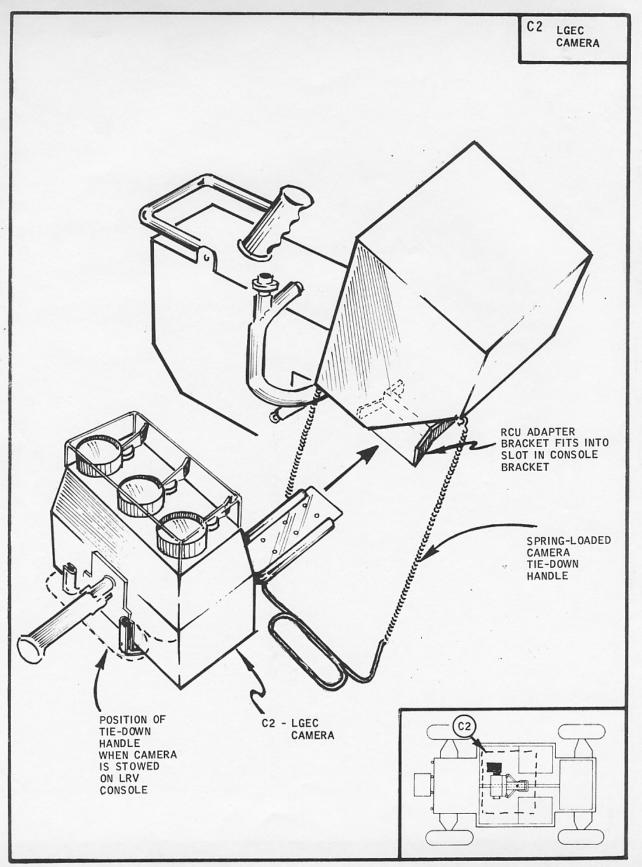












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